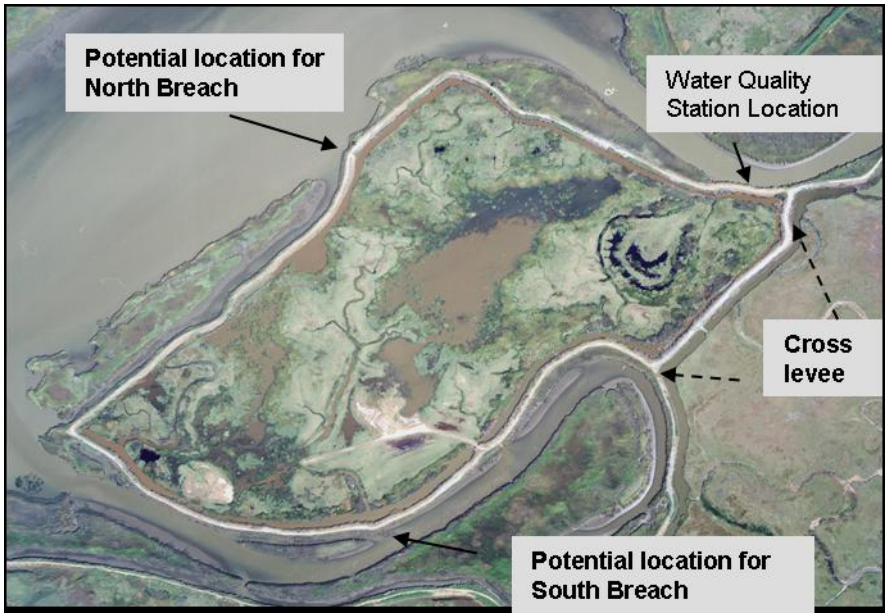
Conceptual Restoration Plan for Blacklock Site, Suisun Marsh

Restoration Goals

- Restore full tidal action and natural hydrology to a formerly managed wetland
  - Allow full unrestricted tidal exchange
  - Ensure breach size(s) in total will not constrain low tide drainage
- Acquire scientific knowledge that will inform future Suisun Marsh restoration projects
- Minimize need for long-term maintenance, optimally zero maintenance
- Minimize opportunity for invasive species establishment
- Provide habitat for native fishes
- Provide habitat for the salt marsh harvest mouse (SMHM)
- Provide habitat for tidal brackish marsh dependent bird species
- Provide interim habitat for waterfowl species



Aerial Photography: August 16, 2004

Elements of the Alternatives

Full tidal action

- Grade perimeter levees
- Dig new channels
- Provide SMHM refugia

What actions can provide restoration science insight?

- Effect of channel network configuration on channel function restoration
- Role of vegetation management in affecting tidal marsh evolution
- Role of interim restoration stages in supporting other wildlife resources (e.g. waterfowl)

•List of elements

- Breach number, location, and size
- Perimeter levee grading
- Cross levee slope reduction (i.e. habitat levee)

Blacklock Alternatives Matrix

	Alternative				
	1	2	3	4	5
Element	No Action with mgmt	No Action w/o mgmt	South Breach	North Breach	2 Breaches
Single levee breach	NA	NA	yes	yes	no
Two levee breaches	NA	NA	no	no	yes
Cross levee slope reduction	no	no	Yes	yes	yes
Downgrade exterior levee	no	no	Yes	yes	yes
Borrow ditch cutoff	no	no	yes	yes	yes
Well pad disposition	leave	leave	leave	leave	leave
Channel network reconfiguration	no	no	as needed	as needed	as needed

For more information contact Department of Water Resources, Division of Environmental Services
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